No.



8900118

THE UNIVERD STAYIES OF AMIERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Ferry-Morse Seed Company

Colherens, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen. YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT ETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT T. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

TOMATO

'Butte'

In Lestimony Watercot, I have hereunto set my hand and caused the seal of the Plant Bariety Protection Office to be affixed at the City of Washington, D.C. this 28th day of February in the year of our Lord one thousand nine hundred and ninety-two.

Sward Madigin

Secretary of Agriculture

Smit

Konneth Herans Commissioner

Plant Variety Protection Office Acricultural Marketina Service

U.S. DEPARTMENT				M APPROVED: OMB NO. 0581-0055							
APPLICATION FOR PLANT VARIE			if a pl	cation is required in order to determine ant variety protection certificate is to ued (7 U.S.C. 2421). Information is							
(Instructions		held confidential until certificate is issued (7 U.S.C. 2426).									
1. NAME OF APPLICANT(S)		2. TEMPORARY DESIGNATION	3. V	ARIETY NAME							
FERRY-MORSE SEED COMPANY		BUTTE									
4. ADDRESS (Street and No. or R.F.D. No., City, State	e, and Zip Code)	5. PHONE (Include area code)		FOR OFFICIAL USE ONLY							
555 CODONI P.O. BOX 4938		209/579-7333	PVPC	NUMBER							
MODESTO, CALIFORNIA 95352		203/3/3 /333		8900118							
6. GENUS AND SPECIES NAME	7. FAMILY NA	ME (Botanical)	U	DATE 10 1000							
Lycopersicon esculentum Mill	FILING	Then 20, 1989									
8. KIND NAME	9.	DATE OF DETERMINATION	 	AMOUNT FOR FILING							
Tomato		OCTOBER 1986	RECEIVED	s 1800 OATE Mar. 20 1989							
10. IF THE APPLICANT NAMED IS NOT A "PERSON partnership, association, etc.)	I," GIVE FORM	OF ORGANIZATION (Corporation,	EES RE	AMOUNT FOR CERTIFICATE							
CORPORATION				Feb. 7, 1992							
11. IF INCORPORATED, GIVE STATE OF INCORPO	1. IF INCORPORATED, GIVE STATE OF INCORPORATION										
13. NAME AND ADDRESS OF APPLICANT REPRES	ENTATIVE(S), II	CALIFORNIA F ANY, TO SERVE IN THIS APPLIE	ATIO	7 APRIL 1969 NAND RECEIVE ALL PAPERS							
DAVID J. THOMPSON FERRY-MORSE SEED COMPANY P.O. BOX 4938											
MODESTO, CALIFORNIA 95352 14. CHECK APPROPRIATE BOX FOR EACH ATTAC		PHONE (Include are	ea code	J: 209/579-7333							
a. X Exhibit A, Origin and Breeding History of			tection	1 Act.)							
b. D Exhibit B, Novelty Statement.	7 (-			•							
c. 🛛 Exhibit C, Objective Description of Variety	(Request form	from Plant Variety Protection Offic	ce.)								
d. X Exhibit D, Additional Description of Varie	•										
e. Exhibit E, Statement of the Basis of Applic 15. DOES THE APPLICANT(S) SPECIFY THAT SEED	OF THIS VARI		E ONL	Y AS A CLASS OF CERTIFIED							
SEED? (See Section 83(a) of the Plant Variety Prot		Yes (If "Yes," answer									
16. DOES THE APPLICANT(S) SPECIFY THAT THIS LIMITED AS TO NUMBER OF GENERATIONS?	VARIETY BE	17. IF "YES" TO ITEM 16, V BEYOND BREEDER SEE		N/A							
Yes X No	OD BROTFOTI	Foundation		egistered Certified							
18. DID THE APPLICANT(S) PREVIOUSLY FILE F	-OR PROTECTI	ON OF THE VARIETY IN THE O	.5.1	Yes (If "Yes," give date)							
				□ No							
19. HAS THE VARIETY BEEN RELEASED, OFFER	ED FOR SALE,	OR MARKETED IN THE U.S. OR	OTHE	R COUNTRIES ? Yes (If "Yes," give names of countries and dates)							
				X No							
20. The applicant(s) declare(s) that a viable sampl plenished upon request in accordance with such	e of basic seed: ch regulations a	s of this variety will be furnished as may be applicable.	with	the application and will be re-							
The undersigned applicant(s) is (are) the owned distinct, uniform, and stable as required in Sec Variety Protection Act.	er(s) of this sex ction 41, and is	ually reproduced novel plant var entitled to protection under th	riety, a e provi	and believe(s) that the variety is is issions of Section 42 of the Plant							
Applicant(s) is (are) informed that false repres	sentation herei	n can jeopardize protection and	result	in penalties.							
SIGNATURE OF APPLICANT			D	ате В <i>З(лесн 1939</i>							
SIGNATURE OF APPLICANT	<u> </u>		D	ATE							

VARIETY: Butte (formerly FM 50189)
EXHIBIT A: Origin and Breeding History of the Variety

Butte was developed, using the pedigree method of breeding, from a Fery-Morse cross made at San Juan Bautista, CA in February 1977 between a Ferry-Morse inbred 10C-X753 MsD3B and M70-1-2-1-MsA an F-M selection of a U.C. Davis lines. The inbred 10C-X753 MsD3B was developed from a cross of UC134 with Saladette from Texas A&M.

F1 plants were medium sized, determinate with medium size deep round fruit exhibiting uniform green color while immature. The fruit load was impressive. F2 seeds from the six F1 plants were harvested from field row # 52957 in October 1977 at SJB.

Most F2 plants in 1978 had very good crops of firm, medium sized fruit in a heat tolerance trial near Fresno, CA. Segregation occurred for fruit shape, maturity, and fruit set as well as vine & foliage type. F3 seeds were saved from three selected plants in field row # 16801 in September.

F3 generation progenies of the three selected plants were again grown in the heat tolerance trial near Fresno. The #1 selection set poorly, the #2 selection exhibited heavy fruit set with good earliness, and the #3 selection was intermediate in fruit set. F4 seeds were massed from 5 selected plants in the second progeny row # 18291 in September 1979. There was some segregation for fruit shape but the massing of seeds was done for ease of handling and to obtain sufficient seed for more extensive trials.

The F4 generation plants from the massed lot set fruit well in the 1980 heat tolerance trial near Fresno. It was early maturing and with slight variation for fruit shape. F5 seeds of seven selected plants with easily removed fruit were massed in field row # 20052 in September 1980.

The F5 generation exhibited medium-small plant size with deep round to egg shaped fruit of good firmness. The earliness and concentration of fruit set were very good. F6 seeds were saved from three selected plants in field row # 84073 in October 1981 at SJB.

The F6 generation plants looked very good in our heat tolerance trial near Fresno. The progeny of selection #1 had very good fruit set with firm, easy stemming fruit. F7 seeds were massed from three selected plants in field row # 24320 in September 1982.

In 1983 and 1984 at San Juan Bautista the F7 and F8 generations were evaluated for fruit quality and overall performance. The fruit set and quality were excellent each year with low pH, high interior color, thick pericarp walls, good soluble solids, and good fruit firmness. Uniformity was very good so seed were massed from all 35 plants in row # 99658 in October 1983 and row # 50189 in October 1984.

VARIETY: Butte (formerly FM 50189) EXHIBIT B: Novelty Statement

Butte is most similar to Sureset which is related to the female parent of Butte. It can be distinguished from Sureset on the basis of leaf morphology and days from seeding to 50% flower. Butte has type 2 leaf morphology with moderately bipinnate leaves. Sureset has type 3 leaf morphology with essentially no bipinnate leaves.

The number of days from seeding to 50% of the plants with 1 open flower was determined in Wisconsin near Sun Prairie and in California at San Juan Bautista. At least 50 plants were used for each variety at each location each year. The data are as follows:

Comparison	BUTTE	Sureset	UC82B
Wis/86	54 days	52 days	57 days
Wis/87	53 "	52 "	53 "
SJB/86	59 "	53 "	55 · "
SJB/87	55 "	48 "	51 "
/Greenhouse		4	
SJB/87	58 days	54 days	56 days
SJB/88	66 2 n 2	60 "	66 "
ave of 6	57.5 days	53.2 days	56.3 days

Sureset was consistently earlier than Butte or UC82B. In California Sureset averaged 6 days earlier than Butte on the basis of 50% plants to flower while UC82B was intermediate. Butte consistently flowers one node later than Sureset which help to explain its later 1 st flower date.

Butte can easily be distinguished from UC82B and VF6203 on the basis of vine spread of the mature plant near harvest. At least 15 plants were measured for each variety at each location.

Comparison	<u>Butte</u>	Sureset	Sureset UC82B			
Wis/88	91 cm	95 cm	116 cm	137 cm		
SJB/88	54 cm	62 cm	78 cm	83 cm		
average	73 cm	79 cm	97 cm	110 cm		

The vine spread of Butte was obviously smaller than UC82B or VF6203 but similar to Sureset. Also in fields where UC82B and VF6203 show considerable puffy (hollow) fruit, Butter is essentially free of puffy fruit.

In 1985 this lot (#50189-Ms/84) was placed in a variety/yield trial at San Juan Bautista along with UC 82B, VF6203, Peelmech, and Colusa. FM 50189 had lower yield than most other varieties in the trial due to its small vine. (Twin rowing in subsequent trials gave very acceptable yields.) It was one of the earliest varieties in the trial and had the best interior fruit color with no puffy fruit. The pH was similar to UC82B and Colusa. The fruit size was intermediate between VF6203 and UC82B.

Seed was harvested from 200 plants in 1985 at San Juan Bautista for increase and cannery trials. A stock seed increase of 4000 plants was harvested in October of 1986 at San Juan Bautista. No obvious off type plants or fruit were observed in either increase and the variety appeared to be very uniform and stable. Subsequent trials of these seed lots were also uniform with no obvious ségregation.

EXHIBIT C (Tomato)

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN AND SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY

TOMATO (Lyca	persicon esculentum Mill.)	•
NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
FERRY MORSE SEED COMPANY	FM 50189	BUITE
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Code)		FOR OFFICIAL USE ONLY
		PVPO NUMBER
555 CODONI, P.O. BOX 4938, MODESTO, CA 95352-493	8	8900118
Choose responses for the following characters which best fit your variety.	Complete this form as fully as po	ossible for best characterization of the variety.
When a single quantitative value is requested (e.g., fruit weight), your answards when necessary (e.g., 0 9 or 0 8 1 , etc.). The appearance of the same type (see list of recommended check varieties below), plants grown under normal conditions of culture for the variety. Indicate Trials direct-seeded or or transplanted X; staked or un SAN JUAN BAULISTA, CA seeded 4/2 86 + transplanted	plicant variety should be compare, and grown in the same trials. The by a check whether trial data are staked X. Give locations ar	d with at least one well-known standard check characters on this form should be described from from greenhouse or fieldX plantings
SAN JUAN BAUTISTA, CA seeded 4/1/87 transplante	0. 5/5/80	
COMPARISONS SHOULD BE MADE TO ONE OR MORE CHECK VARA OF THE CHECK IN BOXES WHERE IDENTITY OF CHECK IS REQUES 1 = Ace 55 VF 7 = Homestead 24 2 = Campbell 37 8 = Marglobe 3 = Chico III 9 = Murietta 4 = Flora Dade 10 = New Yorker 5 = Florida MH-1 11 = Ohio MR-13 6 = Heinz 1350 12 = Red Cherry Large		19 = VF 134 20 = US 28 21 = VF 145 B 7879 22 = Other (Specify) VF6203
1. SEEDLING:	· · · · · · · · · · · · · · · · · · ·	
Anthocyanin in hypocotyl of 2-15 cm. seedling: 1 = Absen	t 2 = Present 1 Habit o	f 3-4 week old seedling: 1 = Normal 2 = Compact
2. MATURE PLANT (at maximum vegetative development):	Cm. He	
2 Growth: 1 = Indeterminate 2 = Determinate	<u> </u>	ignt ·
3 Form: 1 = Lax, open ,2 = Normal	3 = Compact 4 ≃ Dwarf	5 = Brachytic
Size of canopy (compared to others of similar type):	1 = Small 2 = Medium	
Habit: 1 = Sprawling (decumbent)	2 = Semi-erect 3 = E	rect ('Dwarf Champion')
3. STEM:		
2 Branching: 1 = Sparse ('Brehm's Solid Red', 'Fireba	all') 2 = Intermediate ((Westover') 3 = Profuse ('UC 82')
Branching: 1 – Sparse (Brenim's Solid Red , Fireba	iii) 2 – Intermediate (AAGSTONG! 1 2 - 1101036 (OC 02)
Branching at cotyledonary or first leafy node: 1	= Present 2 = Absent	
No, of nodes below the first inflorescence: 1 = 1-4	2 = 4-7 3 = 7-10	4 = 10 or more
No. of nodes between early (1st - 2nd, 2nd - 3rd) inflorescen	nces. No. of	f nodes between later-developing inflorescences.
3 Pubescence on younger stems: 1 = Smooth (no ion 3 = Moderately hair	•	hairy (scattered long hairs)
	y 4 - Definery	Harry of Woody
4. LEAF (mature leaf beneath the 3rd inflorescence):	2	\cdot
1 = Tomato 2 = Potato ('Trip-L-Crop')	Morphology (choose illustrate	tion on pg. 5 of this form that is most similar)
Margins of major leaflets: 1 = Nearly entire 3 = Deeply toothed	2 = Shallowly to or cut, esp. towards base	oothed or scalloped
Marginal rolling or wiltiness: 1 = Absent 2 = Slight	3 = Moderate 4 = St	rong
Onset of leaflet rolling: 1 = Early-season	2 = Mid-season	3 = Late season

4 LE	AF (m	sture leaf beneath the	3rd inflorescence co	ntinued):				<u> </u>
	1	Surface of major leafi		= Smooth	2 = I	Rugose (bumpy or vein	y)	
	2	Pubescence: 1 = Sm	nooth (no long hairs)	2 = Norr	nal	3 = Hirsute	4 = Wooly	
5. IN	IFLOR	ESCENCE (make obser	vations on 3rd inflore	scence):				
	1	Type: 1	= Simple 2 =	= Forked (2 major	axes) 3 = (Compound (much bran	ched)	•
	0 6	Number of flowers in	inflorescence, average				. *	**
	1	Leafy or "running" in	florescences: 1 =	Absent	2 = Occasional	3 = Frequent		•
6. FI	OWER	:		· · · · · · · · · · · · · · · · · · ·	 ,			· · · · -
÷	1	Calyx: 1	= Normal, lobes awl-s	haped	2 = Macrocalyx, lo	bes large, leaflike	3 = Fleshy	
		Calyx-lobes: 1	= Shorter than corolla	a 2=	Approx. equalling cor	rolla 3 = Dis	tinctly longer than co	rolla
	1	Corolla color: 1	= Yellow 2 =	Old gold	3 = White or tan			÷
	1	Style pubescence:	1 = Absent	2 = Sparse	3 = Dense			.*.
	1	Anthers: 1	= All fused into tube	2 =	Separating into 2 or m	nore groups at anthesis		
	1	Fasciation (1st flower	of 2nd or 3rd inflores	cence): 1 =	Absent 2 = 0	occasionally present	3 = Frequently	present
7. FI	RUIT (3rd fruit of 2nd or 3rd	cluster): For the first	5 characters belo	w, match your variety	with the most similar i	Illustration on pg. 5 o	f this form.
	4	Typical fruit shape:		Shape of transver		, , , , , , , , , , , , , , , , , , ,	stem end:	
. :	لستنا		2	Shape of blosson	n end:	1. Shape of	pistil scar:	
				·				
	1	Abscission layer: 1	= Present (pedicellate	e) 2 = Absent (j	ointless) 1 Poin	nt of detachment of fru	it at harvest: 1 = At i	pedicel joint
Γ ₁	2	mm length of pedice	(from joint to calyx	attachment)		•	2 = At (calyx attachmen
) 5	5	mm length of mature	fruit (stem axis) .	[0 5 8 mm	length, check var. no.		2 2
) 5		mm diameter of fruit	at widest point	·	0 5 0 mm	n diameter, check var. n	o	2 2
7		g weight of mature fr	uit	[eight, check var. no.		2 2
		No. of locules:	(1=Two and thr	Thurs and is-				
•		Fruit surface:		•		e or more		
	一	Fruit surface.	1 = Smooth 1 = Light green ('La	2 = Slightly roug		derately rough or ribbe		•
	ت_	(mature-green stage):	3 = Apple or medium 5 = Dark green	•	•	nt gray-green ('Westove low green	,	
	1	Fruit pattern (mature-green stage):	1 = Uniform green		2 = Green-shouldered		3 = Radial stripes on	sides of fruit
		Shoulder color if diffe	rent from base:	1 = Dark green	2 = Grey gr	een 3=	Yellow green	· ·
	5	Fruit color, full-ripe:	1 = White 6 = Brownish	2 = Yellow 7 = Greenish	3 = Orange 8 = Other <i>(Spe</i> c	4 = Pink	5 = Red	
	3	Flesh color, full-ripe:	1 = Yellow	2 = Pink .	3 = Red/Crimso		5 = Other <i>(Spe</i>	cify)
٠.	1	Flesh color:	1 = Uniform	2 = With lighter a	nd darker areas in wal	lis		· · · · · · · · · · · · · · · · · · ·
	2	Locular gel color of ta	ble-ripe fruit:	1 = Green	2 = Yellow	3 = Red		
	2	Ripening:	1 = Blossom-to-stem	end	2 = Uniform			•

7. FR	UIT (3rd	fruit of 2nd or	3rd cluster): Continued					
2	Ripenin	g:	1 = Inside out	2 = Uniformly	3	= Outside in	1	Stem scar size: 1 = Small ('Roma')
2	Epidern	nis color:	1 = Colorless	2 = Yellow			L 1	2 = Medium ('Rutgers') 3 = Large
1	Epiderm	nis:	1 = Normal	2 = Easy-peel			1	Core: 1 = Coreless (absent or smaller than 6x6 mm) 2 = Present
3	Epiderm	is texture:	1 = Tender	2 = Average		3 = Tough		
3	Thickne	ss of pericarp		[3	Thickness of per	icarp, checl	k var. no. 2 2
O DE	OIA A TOLO	C TO COURT	1 = Under 3 mm	2 = 3-6 mm		3 = 6-9 mm		4 = Over 9 mm
0 0	Blossom Blotchy Bursting	end rot	2 Cracking	, concentric , radial		2 Fruit pox 2 Gold fleck 0 Graywall		Zippering Other (Specify)
part	upon dise	ase resistance,	trial data should be append	ed. These should	d speci-	, 2 = Resistant). N fy the method of t	OTE: If classifies of the string, the string, the string of the string o	aim of novelty is based wholly or in substantial reaction of the application variety, and
	0	Cucumber m	osaic	0 Toba	icco mo	osaic, Race 0	O Tob	acco mosaic, Race 2 ²
	0	Curly top				osaic, Race 1		nato spotted wilt
	0	Potato-Y viru	ıs			saic, Race 2		nato yellows
		Other virus (\$	Specify)					
		BACTERIA	AL DISEASES:				•	· · · · · · · · · · · · · · · · · · ·
		Bacterial car	ker <i>(Corynebacterium mic</i>	higanense)	0	Bacterial spot (Kanthomon	as vesicatorium)
-		Bacterial sof	t rot <i>(Erwinia carotovora)</i>		0	Bacterial wilt, (/	Pseudomon.	as solanacearum)
	0	Bacterial spe	ck (Pseudomonas tomato)			Other bacterial	disease <i>(Spe</i>	ecify)
		FUNGAL E	DISEASES:					
: .		Anthracnose	(Colletotrichum spp.)		0	Leaf mold, Race	1 (Clados)	porium fulvum)
	1		rot or corky root, a <i>lycopèrsici)</i>		0	Leaf mold, Race	2	
	0	Collar rot or (Alternaria so	stem canker, plani)		0	Leaf mold, Race		ecify)
	0	Early blight of (Alternaria so						
	2	Fusarium wil	t, Race 1, m f. lycopersici)			Nailhead spot (#	Mternaria to	omato)
÷	1	Fusarium wil	•			Septoria leafspor	t (S. lycope	ersici)
		Fusarium wil				Target leafspot (Corynespoi	ra casiicola)
	2	Gray leaf spo	t (Stemphylium spp.)	÷	2	Verticillium wilt	, Race 1 <i>(</i> l	/. albo-atrum)
		Late blight, F			0	Verticillium wilt Other fungal dise		
-	0	Late blight, F	Race 1		H	Other fungal dise		

FORM LMGS-470-55 (2-82)

9. DISEASE AND PEST REACTION (Use code	: 0 = Not tested, 1 = Susc	eptible, 2 = Resistant - Con	tinued)										
INSECTS AND PESTS:													
O Colorado potato beetle (Leptinotarsa dec	Colorado potato beetle (Leptinotarsa decemlineata) Tomato hornworm (Manduca quinquemaculata)												
1 Southern root knot nematode (Meloidogy	Southern root knot nematode (Meloidogyne incognita) 0 Tomato fruitworm (Heliothis zea)												
0 Spider mites (Tetranychus spp.)	0 Wh	itefly (Trialeurodes vaporari	iorum)										
O Sugar beet army worm (Spodoptera exigu	a) Oth	ner (Specify)											
Tobacco flea beetle (Epitrix hirtipennis)													
POLLUTANTS:													
0 Ozone 0 Sulfur dioxi	de Oth	er (Specify)											
10. CHEMISTRY AND COMPOSITION OF FU Canners Assn. Bull. 27-L. Please specify tes for at least one well-known check variety of	t methods or give a refer	ence to methods used. Fill	in table below with values	for the new variety and									
	SUBMITTED VARIETY	Check Variety UC82B	Check Variety VF6203	Check Variety Sureset									
pH SAN JUAN BAUTISTA CA 1986/1987	4.34/4.34	4.36/4.37	4.46/4.41	4.45/4.39									
Titratable acidity, as % citric													
Total solids (dry matter, seeds and skin removed)													
Soluble solids, as OBrix SAN JUAN BAUTISTA	4.8/4.7	4.2/4.0	4.6/4.8	5.0/4.4									
11. PHENOLOGY: Express length of development are used, indicate the base tenth for method. Give comparative	mperature used in their ca	culation here	OC. See paper by War	nock under "References"									
	APPLICATION VARIETY	Check variety UC82B	Check variety VF6203	Check variety Sureset									
Seeding to 50% flower (1 open flower on 50% of plants) SAN JUAN BAUTISTA	59/55 days	55/51 days	59/51 days	53/48 days									
Seed to once-over harvest (if applicable)													
171	ong ('Marglobe') ry concentrated ('UC 82')	2 = Medium ('Westover')	3 = Short, conc	entrated ('VF 145')									
2 Relative maturity in areas teste	ed: 1 = Early 4 = Medium	2 = Medium early late 5 = Late	to differ by	relative maturity is known location or environment, in on separate sheet).									
12. ADAPTATION: If more than one category ap		•											
			hole-pack canning										
2 Machine harvest: 1 = No	t adapted 2 = A	dapted	-										
0 9 1 1 Regions to which adaptation ha	as been demonstrated:												
	rtheast 2 = M eat Plains 6 = Se ifornia: Sacramento and l ifornia: Coastal areas	outh-central 7 = Upper San Joaquin Valley	Southeast Intermountain West California: Southern San	4 = Florida 8 = Northwest Joaquin Valley & deserts									
Pro Pro													
FORM LMGS-470-55 (2-82)				Page 4 of 5									

VARIETY: Butte (formerly FM50189)
EXHIBIT D: Additional Description of the Variety.

Butte is a medium early, machine harvestable processing tomato with resistance to Verticillium Wilt and Fusarium Wilt race 1 and with coarse curly foliage on a compact vine which requires twin row planting for optimum yields. The fruit is uniform green while immature, and is medium sized, firm and egg shaped with medium high solids and medium low pH at maturity. The interior color is excellent.

Butte has similar pH to UC82B and Colusa but significantly low pH than VF6203 or Peelmech. Butte has similar soluble solids to VF6203 and Peelmech but significantly higher than UC82B. Maturity of Butte for over harvest in Woodland, California is about 5 days earlier than VF6203 and 15 days earlier than UC82B.

EX	Н	I	В	I	Ţ		Ħ	Ξ	- 11																								
ΡŢ	a	n	t;		٧	ä	r	Ť	e	t;	У		p	r	0	t	0	C ·	t	Ť	0	n		Д	р	р	Ĩ	Ť	C a	æ 1	t, i	íc	วท
Nο	:									_		_	_	_		_		_			_	_	_	_									

ASSIGNMENT

I, .Court Nichols......, agree and hereby do transfer and assign to FERRY-MORSE SEED COMPANY all my rights, title, and interest in and to that certain variety namely,BUTTE (FORMERLY FM50189), for which application for Plant Variety Protection Certificate has been filed. This agreement shall be binding on my administrators, successors, and assigns.

Courtland & Michola

EXHIBIT "E"

Plant Variety Protection Application

No: 8900118

STATEMENT OF OWNERSHIP

I, George R. Allbritten, Secretary of Ferry-Morse Seed Company do
hereby certify that Ferry-Morse Seed Company is the breeder and
owner of that certain variety namely,
for which an application for Plant Variety Protection has been
filed.
In witness whereof I have executed this statement of ownership and
caused the Ferry-Morse Corporate Seal to be affixed this <u>27</u> day
of <u>April</u> , 1990.
Secretary

SEAL